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| APPLICATION NO.                  | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|----------------------------------|----------------|----------------------|---------------------|------------------|--|
| 10/583,171                       | 04/29/2009     | Laura M'Rabet        | 207,645             | 2577             |  |
| Jay S Cinamon                    | 7590 09/15/201 | EXAMINER             |                     |                  |  |
| Abelman, Frayr<br>666 Third Aven |                | SGAGIAS, MAGDALENE K |                     |                  |  |
| New York, NY 10017-5621          |                |                      | ART UNIT            | PAPER NUMBER     |  |
|                                  |                |                      | 1632                |                  |  |
|                                  |                |                      |                     |                  |  |
|                                  |                |                      | MAIL DATE           | DELIVERY MODE    |  |
|                                  |                |                      | 09/15/2011          | PAPER            |  |

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                   | Application No.                                                                                                           | Applicant(s)                            |                |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|--|--|--|
| Office Action Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                   | 10/583,171                                                                                                                | M'RABET ET AL.                          |                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                   | Examiner                                                                                                                  | Art Unit                                |                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                   | MAGDALENE SGAGIAS                                                                                                         | 1632                                    |                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply                                                                                                                                                                                             |                                                                                                                           |                                         |                |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |                                         |                |  |  |  |
| Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |                                         |                |  |  |  |
| 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Responsive to communication(s) filed on <u>15 Ju</u>                                                                                                                                                                                                                                                              | ine 2006                                                                                                                  |                                         |                |  |  |  |
| , ——                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   | action is non-final.                                                                                                      |                                         |                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | An election was made by the applicant in response                                                                                                                                                                                                                                                                 |                                                                                                                           | set forth during the                    | e interview on |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | the restriction requirement and election have been incorporated into this action.                                                                                                                                                                                                                                 |                                                                                                                           |                                         |                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is                                                                                                                                                                                                |                                                                                                                           |                                         |                |  |  |  |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | closed in accordance with the practice under <i>E</i>                                                                                                                                                                                                                                                             | ·                                                                                                                         |                                         |                |  |  |  |
| Dispositio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | on of Claims                                                                                                                                                                                                                                                                                                      |                                                                                                                           |                                         |                |  |  |  |
| 6)□ (<br>7)⊠ (<br>8)□ (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>/                                  </u>                                                                                                                                                                                                                                                                        |                                                                                                                           |                                         |                |  |  |  |
| Application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | on Papers                                                                                                                                                                                                                                                                                                         |                                                                                                                           |                                         |                |  |  |  |
| 11)□ T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Careplacement drawing sheet(s) including the correction of the organization is objected to by the Example 2.                                                        | epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj             | 937 CFR 1.85(a).<br>ected to. See 37 Cf |                |  |  |  |
| Priority u                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nder 35 U.S.C. § 119                                                                                                                                                                                                                                                                                              |                                                                                                                           |                                         |                |  |  |  |
| a) [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureause the attached detailed Office action for a list | s have been received.<br>s have been received in Application<br>rity documents have been receive<br>u (PCT Rule 17.2(a)). | on No ed in this National               | Stage          |  |  |  |
| Attachment(                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (s)                                                                                                                                                                                                                                                                                                               |                                                                                                                           |                                         |                |  |  |  |
| 1) Notice 2) Notice 3) Inform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date                                                                                                                                                                         | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:                                                | ite                                     |                |  |  |  |

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## **DETAILED ACTION**

Claims 28-47 are pending. Claims 1-27 are canceled. The amendment dated 06/15/2006 has been acknowledged.

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 28-34, drawn to use of a lactic acid producing bacterium for the preparation of a nutritive composition for the treatment or prophylaxis of lung dysfunction selected from the group consisting of Chronic Obstructive Pulmonary Disease (COPD), aspiration, lung dysfunction due to non specific inhaled irritants, pulmonary oedema, and tracheal stenosis in a subject, wherein said lactic acid producing bacterium is a bacterium which has a significant beneficial effect on airway narrowing determined by measuring the enhanced pause value (PenH) of a test animal.

Group II, claim(s) 35-40, drawn to nutritive composition for treatment or prophylaxis of lung dysfunction selected from the group consisting of Chronic Obstructive Pulmonary Disease (COPD), aspiration, lung dysfunction due to non specific inhaled irritants, pulmonary oedema and tracheal stenosis in a subject, wherein the composition comprises at least one lactic acid producing bacterium having significant beneficial effect on airway narrowing, wherein said significant beneficial effect is determined by measuring the enh3anced pause value (PenH) of a test animal.

Group III, claim(s) 41-44, drawn to bacterial strain LMG P-22110, or any strain derived therefrom.

Group IV claim(s) 45, drawn to a method for preparing a composition for the treatment or prophylaxis of airway hyper-responsiveness and/or airway resistance in a subject, said method comprising testing the effect of lactic acid producing bacteria on airway hyper-responsiveness and/or increased airway resistance by measuring the PenH of test animals, selecting a bacterial strain which has a significant beneficial effect on airway hyperresponsiveness and/or increased airway resistance in said test animals or human subjects, growing said selected strain and formulating said grown strain so that it becomes suitable for administration to a subject.

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Group V claim(s) 46-47, drawn to use of probiotic lactic acid bacteria for the preparation of a medicament for treating or preventing Chronic Obstructive Pulmonary Disease (COPD) in a subject.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: **Clancy et al,** (WO 01/37865 (IDS)) discloses use of a lactic acid producing lactobacillus bacterium by administration of a therapeutic effective amount of the live probiotic bacteria or live probiotic bacteria-containing composition (abstract). Thus, the technical feature of a lactic acid producing bacterium is not special and the groups are not so linked under PCT Rule 13.1.

**A.** This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- A. 1. one or more carriers and/or proteins
  - 2. carbohydrates,
  - 3. and/or lipids
  - 4. and/or anti-oxidants,
  - 5. liquid
  - 6. powder,
  - 7. solid
  - 8. capsulated form, as set forth in claims 33, 40.
- B. 1. a food,
  - 2. a food supplement or
  - 3. a medicament, as set forth in claim 43

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify

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the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: 28, 35, 41, and 46.

## REQUIREMENT FOR UNITY OF INVENTION.

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to

different categories of invention will be considered to have unity of invention if the claims are

drawn only to one of the following combinations of categories:

(1) A product and a process specially adapted for the manufacture of said product; or

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(2) A product and process of use of said product; or

- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

B. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so

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may result in a loss of the right to rejoinder. Further, note that the prohibition against double

patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is

withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to MAGDALENE SGAGIAS whose telephone number is (571)272-3305. The

examiner can normally be reached on Monday-Friday, 9-5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Paras can be reached on 571-272-4517. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Magdalene K. Sgagias,

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/Thaian N Ton/

Primary Examiner, Art Unit 1632